

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: DeRobertis et al.      Examiner: Romeo, D.  
Serial No. Not yet assigned      Group Art Unit: 1647  
Filed: April 21, 2000      Docket No. 510015-258  
Title: ENDODERM, CARDIAC AND NEURAL INDUCING FACTORS – HUMAN  
FRAZZLED (FRZB-1) PROTEIN

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**CERTIFICATE UNDER 37 CFR 1.10**

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I hereby certify that this paper or fee is being deposited with the United States Postal Service ‘Express Mail Post Office To Addressee’ service under 37 CFR 1.10 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

By:   
Name: Amber Stewart

**PRELIMINARY AMENDMENT**

BOX: Patent Application  
Commissioner for Patents  
Washington, D.C. 20231

Sir:

**IN THE TITLE**

Please amend the title to read “ENDODERM, CARDIAC AND NEURAL INDUCING FACTORS – HUMAN FRAZZLED (FRZB-1) PROTEIN”.

**IN THE SPECIFICATION**

1. The following shows the changes made to the paragraph originally found at page 1, line 14 of the specification:

This application is a Divisional of Application Serial No. 09/552,988 filed April 21, 2000, which claims the benefit of U.S. Provisional Application No. 60/020,150, filed June 20, 1996.

IN THE CLAIMS

Please cancel claim 1 and amend claims as follows:

6. (Amended) A substantially pure protein characterized by a physiologically active form and comprising an amino acid sequence encoded by the DNA of SEQ ID NO:10.
7. The protein as in claim 6 having neurotrophic, growth or differentiation factor activity.
8. A composition comprising the protein of claim 6 and a physiologically acceptable carrier with which the protein is admixed.
12. A complex comprising a substantially pure frzb-1 protein complexed with at least one Wnt protein.

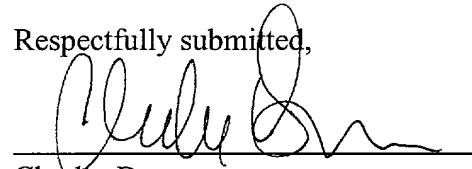
REMARKS

In compliance with the requirements of 37 CFR 1.821-1.825, the Applicant encloses a computer readable form copy of the Sequence Listings referred to in the application. The Applicant submits that the content of the paper copy of the Sequence Listing and computer readable copies are the same, thus the computer readable form copy of the Sequence Listings no new matter has been added to the application.

Consideration of the above application is respectfully requested.

In view of the above, it is submitted that this application is in good order for allowance, and such early action is respectfully solicited. Should matters remain which the Examiner believes could be resolved in a telephone interview, the Examiner is requested to telephone the Applicant's undersigned attorney.

Respectfully submitted,

  
Charles Berman  
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Date: July 11, 2001

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ADDENDUM PAGES

VERSION MARKED TO REFLECT CHANGES

I. CHANGES IN THE TITLE

Please amend the title to read "ENDODERM, CARDIAC AND NEURAL INDUCING FACTORS – HUMAN FRAZZLED (FRZB-1) PROTEIN".

II. CHANGES IN SPECIFICATION

1. The following shows the changes made to the paragraph originally found at page 1, line 14 of the specification:

[This application claims the benefit of U.S. Provisional Application No. 60/020,150, filed June 20, 1996.] This application is a Divisional of Application Serial No. 09/552,988 filed April 21, 2000, which claims the benefit of U.S. Provisional Application No. 60/020,150, filed June 20, 1996.

III. CHANGES IN THE CLAIMS

6. (Amended) A substantially pure protein characterized by a physiologically active form and comprising an amino acid sequence encoded by the DNA of [SEQ ID NO:4, SEQ ID NO:8, or] SEQ ID NO:10.

7. The protein as in claim 6 having neurotrophic, growth or differentiation factor activity.

8. A composition comprising the protein of claim 6 and a physiologically acceptable carrier with which the protein is admixed.

12. A complex comprising a substantially pure frzb-1 protein complexed with at least one Wnt protein.